Title (en)

METHOD AND SYSTEM FOR SIMULATING TEXTURE FEATURES OF A COATING

Title (de

VERFAHREN UND SYSTEM ZUR SIMULATION VON TEXTURMERKMALEN EINER BESCHICHTUNG

Title (fr)

PROCÉDÉ ET SYSTÈME POUR SIMULER DES CARACTÉRISTIQUES DE TEXTURE D'UN REVÊTEMENT

Publication

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Application

EP 20739995 A 20200713

Priority

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Abstract (en

[origin: WO2021013615A1] The present invention refers to a computer-implemented method for simulating texture features of a n-layer target coating (100), each layer (111, 112, 113) of the n-layer target coating (100) having known real geometrical properties and being composed of known individual ingredients with known real material properties, the method comprising at least the steps of: a) providing, via at least one communications interface, the known real geometrical properties and the known individual ingredients with the known real material properties, b) modelling, by at least one processor, the n-layer target coating (100) in a virtual environment, wherein each layer (111, 112, 113) of the n-layer target coating (100) is created according to its real geometrical and material properties; c) virtually tracing, by at least one of the at least one processor, rays of light from one or more light sources towards an aim region defined on a surface of the n-layer target coating (100) for simulating an interaction of incident light rays from the one or more light sources and the n-layer target coating (100); d) virtually collecting, by one or more receivers, rays of light that interacted with the n-layer target coating (100); e) virtually determining, by the one or more receivers, at least one of an angular, a spectral and a spatial distribution of intensity of the rays of light re- emitted from or reflected by the n-layer target coating (100), f) evaluating, by at least one of the at least one image based on the evaluation.

IPC 8 full level

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